Governor's Water Augmentation, Innovation and Conservation Council Meeting March 19, 2021



Agenda

- I. Welcome and Introductions
- II. Committee Updates
 - a. Post-2025 AMAs Committee
 - b. Long-Term Water Augmentation Committee
 - c. Non-AMA Groundwater Committee
 - d. Desalination Committee
- III. Council Annual Report Carol Ward, ADWR
- IV. 5th Management Plans Update Natalie Mast, ADWR
- V. Closing Remarks
- VI. Next Meeting
 June 17, 2021, 10:00 a.m. 12:00 p.m.
- VII. Adjournment



Webinar Logistics

- Please state your name when speaking.
- Mute yourself when not speaking.
- Indicate you wish to speak by typing your name in the chat box, and you will be invited to unmute and speak.
- Please message "Everyone" in the chat.
- The meeting and chat will be recorded.

Technical issues? Send a direct message to ADWR-Host in the chat, call the ADWR Help Desk at 602-771-8444 or email tickets@azwater.gov.



Welcome and Introductions



5th Management Plans Update



Natalie Mast AMA Director, Management Plans



Estimated 5MP Timeline

new.azwater.gov/5MP

2020

MPWG

Program Analysis

Program Development

2021

Drafting

Document Structure & Content

Implementation & Strategy

2022

Promulgation

Present to GUACs and stakeholders

Programs become effective 1/1/2025

Conservation

6

Estimated 5MP Timeline

new.azwater.gov/5MP

2021:

Drafting

2020: Development

Stakeholder Outreach

Build out <u>Concepts</u> developed in previous phase

Data Analysis

Work Group,

Subgroups, &

- Develop <u>Concepts</u> to Increase Conservation
 - ➤ Update Existing Programs
 - ➤ Design New Programs

- ➤ Regulatory Language
- ➤ Feedback from GUACs/AMAs re: Customization & Implementation
- Draft Narrative & Background
- Develop Data Tools

2022: Adoption

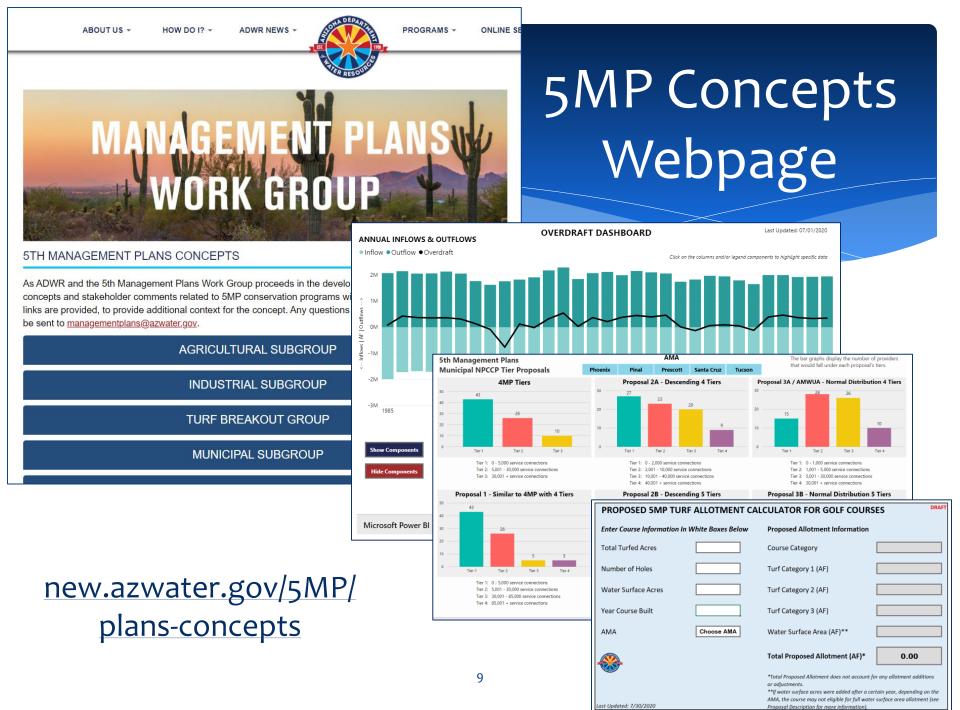
- Publication of initial drafts
- Presentation to GUACs for recommendations
- Promulgation processes
 - ➤ Hearing & Public Comment
 - Findings & Adoption
 - ➤ Noticing of Conservation Requirements



WANAGEWENT PLANS WORK GROUP

A.R.S. § 45-563 (A)

"The director shall develop a management plan for each initial active management area for each of five management periods... and shall adopt the plans only after public hearings... The plans shall include a continuing mandatory conservation program... designed to achieve reductions in withdrawals of groundwater."



5MP Municipal Subgroup: Work Plan/Timeline

Topic (5MP Municipal Subgroup)	Meetings
Discussion of Non-Per Capita Conservation Program	February 2021
Discussion of GPCD ProgramMethod for Establishing TargetsFlexibility ProvisionsTypes of Water Included	February 2021 March 2021
Discussion of Alternative Conservation Program	March 2021



5MP Turf Breakout Subgroup: Work Plan/Timeline

Topic (5MP Turf Subgroup)	Meetings
Golf Conservation Program	February 2021
Non-Golf Turf Facility Conservation Program	February 2021
Other Items, as needed	April (tentative)
Draft Regulatory Language Review	When available, 2 nd Half of 2021





Ag BMP Advisory Committee Work Plan/Timeline

Work Plan:

- Monthly meetings: new.azwater.gov/ama/bmp/meetings
- Deadline for recommendations to meet 5MP timeline: May 3, 2021

Topic	Meetings	Status
 Discussion of each BMP & Category Technical Accuracy of BMPs Improvements/Updates Individual Points Values & Accumulation BMP Categories & Points Requirements 	January 2021 February 2021 March 2021	Continued discussion of Proposal from Chairman Riggins
5MP StructureTier ProposalPoints target(s)	March 2021 April 2021	Will hold Tier concept for future plans
 Analysis of BMP Program Consistency with statutory requirements BMP Lineage Analysis 		On hiatus: Pending agreement on 5MP structure, this topic may be moot
Wrap-up of BMP Committee Recommendations for 5MPs	May 3, 2021	5MP Subgroup will meet on March 24 & May 19, 2021

5MP Ag Subgroup: Work Plan/Timeline

Topic (5MP Ag Subgroup)	Meetings
Discussion of Integrated Farm ProgramGeographic LimitationsCut to the AquiferFlex Credits	January 2021 March 2021 May 2021
Discussion of Reduction of Top 25% of Water Duties	May 2021
 Discussion of BMP Program Recommendations from the Ag BMP Advisory Committee 	May 2021

Estimated 5MP Timeline

new.azwater.gov/5MP

2020: Development

2021: **Drafting**

- Work Group, Subgroups, & Stakeholder Outreach
- Data Analysis
- Develop Concepts to Increase Conservation
 - ➤ Update Existing Programs
 - ➤ Design New **Programs**

- Build out <u>Concepts</u> developed in previous phase
 - ➤ Regulatory Language
 - > Feedback from GUACs/AMAs re: **Customization &** Implementation
- Draft Narrative & Background
- Develop Data Tools

2022: Adoption

- Publication of initial drafts
- Presentation to **GUACs** for recommendations
- Promulgation processes
 - ➤ Hearing & Public Comment
 - ➤ Findings & Adoption
 - ➤ Noticing of Conservation Requirements



5MPs Drafting Logistics

- * All 5 Fifth Management Plans will be drafted simultaneously
 - * Structure will largely match across AMAs
 - Time for AMA Customization
- * Subgroups will reconvene as needed to review draft regulatory language
 - ➤ Goal: Publication of Initial Drafts in early 2022



Estimated 5MP Timeline

new.azwater.gov/5MP

2020: Development

- Build out <u>Concepts</u> developed in previous phase
 - ➤ Regulatory Language
 - > Feedback from GUACs/AMAs re: **Customization &** Implementation
 - Draft Narrative & Background
 - Develop Data Tools

2021: **Drafting**

 Publication of initial drafts

2022:

Adoption

- Presentation to **GUACs** for recommendations
- Promulgation processes
 - ➤ Hearing & Public Comment
 - ➤ Findings & Adoption
 - ➤ Noticing of Conservation Requirements

- Work Group, Subgroups, & Stakeholder Outreach
- Data Analysis
- Develop Concepts to Increase Conservation
 - ➤ Update Existing Programs
 - ➤ Design New **Programs**



Questions?

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managementplans@azwater.gov

Management Plans Work Group: new.azwater.gov/5MP

Full Text of Management Plans: new.azwater.gov/ama/management-plans



Governor's Water Council Annual Report

ATER RESOUR

Carol Ward

Deputy Assistant Director, Planning & Permitting

"The annual report shall describe the activities and the recommendations of the Council."



SUMMARY

This annual report describes the activities and the recommendations of the Council

CONTACT

Phone: (602) 771-8511 Vebsite: azwater.gov/gwaici ADDRESS TO 1110 W Washington Street Suite 310 Phoenix AZ 85007

- I. Members of the Council
- II. Executive Summary
- III. Background
 - Council Role
 - Composition
 - Committees
- IV. Activities of the Council
- V. Activities of the Committees
- VI. Groundwater Conservation Grant



Annual Report Drafting Process

Editing & Formatting

Drafting

1. REPORT OUTLINE REVIEW

March 19

• Discuss Outline

2.CONTENT REVIEW

May 3 – 17

Council Review

3. FINAL REVIEW

June 1 – 15

Council Review



Questions & Comments on the Annual Report?



Committee Updates



Long-Term Water Augmentation Committee Chairman Wade Noble

Next meeting of the LTWA Committee: TBD Next meeting of the Storage Site Subcommittee: TBD



Long-Term Water Augmentation Committee Update

March 12, 2021 Meeting

- * Topics included:
 - * Water Importation Presentation by Chuck Cullom, CAP
 - * Storage Sites Subcommittee Update from ADWR

Future LTWA Committee Meetings

TBD



Water Importation Presentation Summary

- * Brief history of Colorado River Basin augmentation
- * Augmentation concepts explored since 2008
 - * Basin States & binational process
- * Binational Desalination Study
 - * Identified potential desalination opportunities
- * Trans-basin Diversion Augmentation Concept
 - * Past studies include:
 - 2008 Basin States Augmentation Study
 - 2012 BOR Basin Study
 - 2014 Short List Study
 - * Short List Study Summary identified significant regulatory & permitting obstacles
 - * 2014 cost estimate of \$6 Billion dollars for concept evaluation of 200,000 af/yr

Carter Lake EL 5.850'

Summary of Short List Study Concept and Analysis:

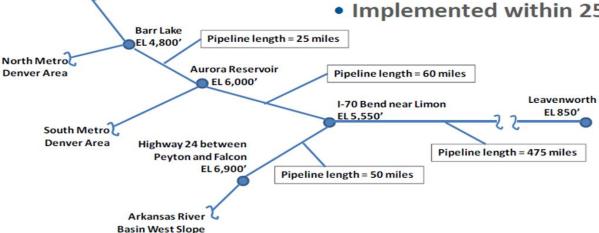
Pipeline length = 35 miles

Diverters

June 26, 2014

PROJECT 10 – MISSOURI RIVER CONVEYANCE TO **COLORADO FRONT RANGE**

- Yield = 200,000 AFY increments
- Capital cost = \$5.6B
- Annual O&M = \$155M
- Unit cost = \$2,150/AF
- Implemented within 25 to 30 years





Storage Sites Subcommittee Update from ADWR

- * Formed to identify criteria for selection of potential underground storage sites for possible revision of the 2017 report Potential Water Storage Sites on ASLD State Trust Land
- * Subcommittee has met three times, most recently on Feb. 26, 2021
- * ADWR selected potential sites and evaluated the selected sites to identify if any common criteria surfaced.



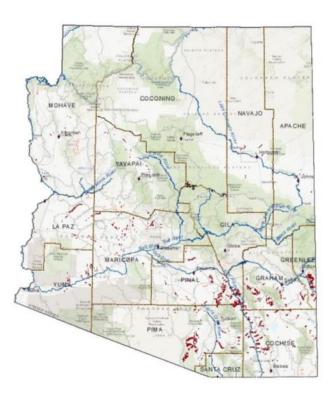
Storage Sites Subcommittee Update from ADWR

- * The conclusion of this analysis showed that it is difficult to evaluate where it would be "best" to site projects on a statewide basis
- * Did not want to limit potential opportunities
- * Local stakeholders are best prepared to evaluate potential sites/opportunities
 - What would they need to consider to make an assessment?
 - What resources are available to assist?

Storage Sites Subcommittee Update from ADWR

The proposed approach includes a guide to underground water storage facility site selection

- Statewide evaluation criteria
- Initial investigations for interested parties to consider
 - Land use status
 - o Technical feasibility
 - Regulatory & permitting considerations
 - Facility conceptual development
 - Facility design



Questions for the LTWA Committee or Storage Site Selection Subcommittee?

Chair: Wade Noble

Governor's Water Augmentation, Innovation & Conservation Council

March 19, 2021

Non-AMA Groundwater Committee Co-Chairs Rep. Gail Griffin and Jamie Kelley

Next meeting: TBD



Desalination Committee Chairman Henry Day

Next meeting: March 25, 10:00 a.m. - noon



Post-2025 AMAs Committee Co-Chairs Warren Tenney and Tim Thomure

Next meeting: TBD





Post-2025 AMAs Committee Objective

GOAL

Identify water management challenges facing the AMAs and generate strategies and solutions for 2025 and beyond

2025

- Milestone set by the 1980
 Groundwater Management Act
- Point in time to further direct water management in AMAs



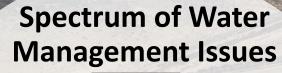


Post-2025

- Build on and improve Arizona's successes
- Tackle challenges facing the AMAs
- Responsibility to address today what will leave a better future for the next generations







Six Issues Identified

- Hydrologic Disconnect
- Exempt Wells
- Unreplenished Groundwater
 Withdrawals
- Groundwater in the Assured Water Supply Program
- Water Supplies for Replenishment of the CAGRD
- Post-2025 AMAs Management Structure

Present Issue Briefs to the Governor's Water Council so Committee can start next phase

Central Avra Valley Storage and Recovery Projec City of Tucsor

Hydrologic Disconnect

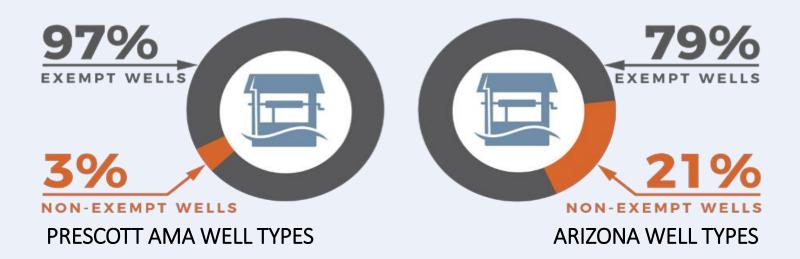
- Recharge & Recovery / Pumping & Replenishment can occur
 AMA-wide
- Pumping can occur that is not hydrologically connected to the area where water is stored/replenished
- This disconnect can lead to water management problems, including localized groundwater depletion



Phoenix AMA – 5,646 square miles / 100 miles wide / 7 sub-basins

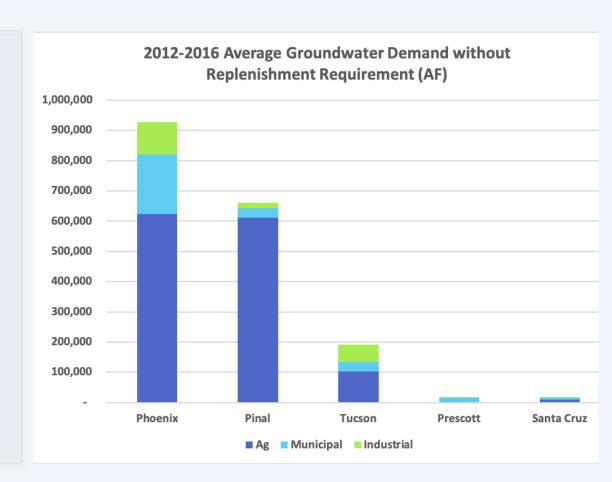
Exempt Wells

- Wells pumping 35 gpm or less for non-irrigation
- Unregulated but may impact other well types and affect aquifer viability
- Extent of the issue varies between AMAs



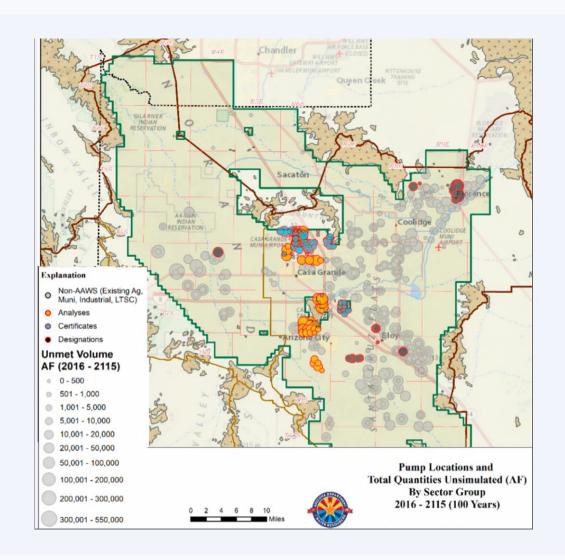
Unreplenished Groundwater Withdrawals

- Groundwater
 withdrawals allowed
 without requirement to
 replenish or replace
- Such pumping occurs in all sectors
- Contributes to water management challenges including overdraft



Groundwater in the Assured Water Supply Program

- AWS Program has benefited Arizona
- Groundwater withdrawals permitted
- Pumping impacts ability to demonstrate physical availability
- Challenges to obtain renewable supplies in groundwater dependent areas



CAGRD Replenishment & Water Supplies

- Focus on unique challenge facing CAGRD – well-administered responsibility of the CAWCD
- Long-term uncertainties of availability and costs of supplies for replenishment

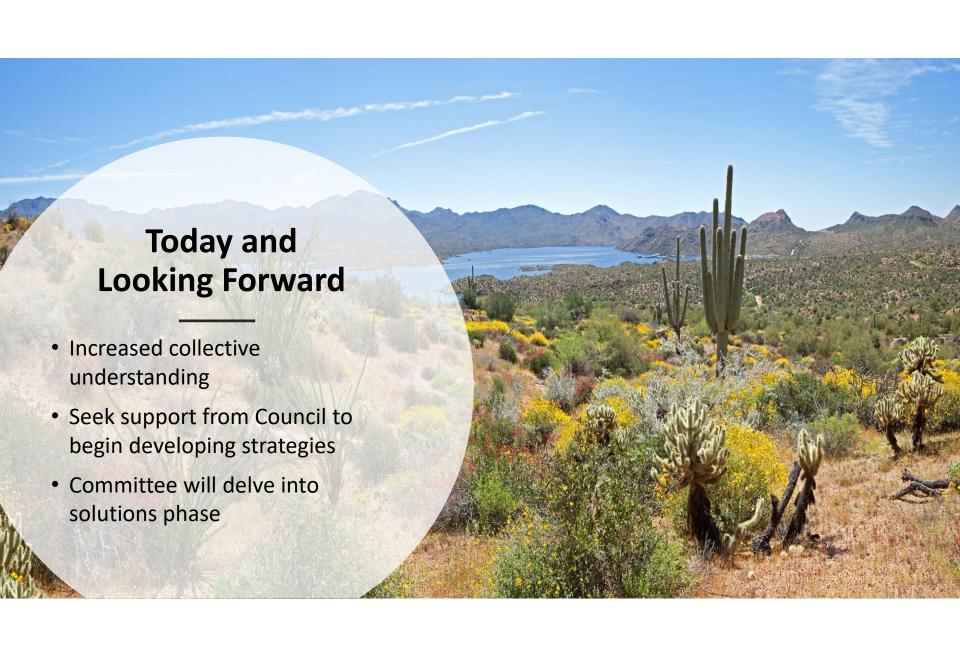


AMA Management Structure

- 1980 2025
- AMAs -
 - management goal
 - management periods
 - management plan
- After 2025, limited ability for AMAs to adapt







Closing Remarks



Upcoming Meetings

June 17, 2021, 10:00 a.m.

September 16, 2021, 10:00 a.m.

December 9, 2021, 10:00 a.m.



Contact Information

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ADWR/Council web page: www.azwater.gov/gwaicc

